

Set Name Query
side by side

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=AND

<u>L10</u>	L9 and ((liver or hepatic) adj (cell transplantation))
<u>L9</u>	L5 and (treatment or therapy)
<u>L8</u>	L7 and (human)
<u>L7</u>	L6 and ((alpha fetoprotein) or (albumin))
<u>L6</u>	((liver or hepatic) adj progenitor) or hepatoblast
<u>L5</u>	L3 and ((alpha fetoprotein) or (albumin))
<u>L4</u>	Lw same (human liver)
<u>L3</u>	L2 and (human liver)
<u>L2</u>	(hepatic or hematopoietic or hemopoietic or mesenchymal) adj (progenitor or (stem cell))
<u>L1</u>	Reid-lola-M\$.in.

Hit Count Set Name
result set

30	<u>L10</u>
615	<u>L9</u>
32	<u>L8</u>
32	<u>L7</u>
44	<u>L6</u>
621	<u>L5</u>
0	<u>L4</u>
1019	<u>L3</u>
1960	<u>L2</u>
11	<u>L1</u>

END OF SEARCH HISTORY

...of a putative stem-like cell in liver together with the sticity exhibited by some hepatocytes and biliary epithelial cells in various forms of severe *hepatic* and biliary tract injury can have important implications for carcinogenesis and aberrant regenerative responses in liver. In addition, novel in vivo and cell culture models...

MEDICAL DESCRIPTORS:

animal tissue; bile duct; histology; human; human tissue; nonhuman; rat;

review

?ds

Set	Items	Description
S1	349	(LIVER OR HEPATIC) (W) (PROGENITOR OR (STEM (W) CELL))
S2	56	(HEPATOBLAST)
S3	398	S1 OR S2
S4	257	S3 AND (HEPATIC OR MESENCHYMAL OR HEMATOPOIETIC OR HEMOPOI-ETIC)
S5	24	S4 AND (ISOLATION OR PURIFICATION)
S6	19	RD (unique items)
S7	36	S3 AND (CELL (W) TRANSPLANTATION)
S8	19	S7 AND (TREATMENT OR THERAPY)
S9	12	RD (unique items)
S10	24	(S3 OR S4) AND REVIEW
S11	17	RD (unique items)
S12	4	S11 AND ((HEPATIC OR LIVER) (W) (DISEASE OR DISORDER))

?logoff

```

24mar02 14:25:43 User259876 Session D329.2
$3.70      1.157 DialUnits File155
$2.52      12 Type(s) in Format  3
$2.52      12 Types
$6.22      Estimated cost File155
$5.83      1.041 DialUnits File5
$14.00      8 Type(s) in Format  3
$14.00      8 Types
$19.83      Estimated cost File5
$15.23      1.692 DialUnits File73
$37.50      15 Type(s) in Format  3
$37.50      15 Types
$52.73      Estimated cost File73
OneSearch, 3 files,  3.889 DialUnits FileOS
$0.53      TYMNET
$79.31      Estimated cost this search
$79.67      Estimated total session cost   3.988 DialUnits

```

Status: Signed Off. (9 minutes)

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 3106900061...Open

DIALOG INFORMATION SERVICES

PLEASE LOGON:

***** HHHHHHHH SSSSSSSS?

Status: Signing onto Dialog

ENTER PASSWORD:

***** HHHHHHHH SSSSSSSS? *****

Welcome to DIALOG

Status: Connected

Dialog level 02.02.11D

Last logoff: 23mar02 13:14:13

Logon file001 24mar02 14:17:41

*** ANNOUNCEMENT ***

--Dialog NewsRoom is now available. BEGIN NEWSROOM
to use the files in a OneSearch. See NEW FILES RELEASED
(below) for individual file numbers.

--Connect Time joins DialUnits as pricing
options on Dialog. See HELP CONNECT for
information.

--SourceOne patents are now delivered to your
email inbox as PDF replacing TIFF delivery.
See HELP SOURCE1 for more information.

--Important news for public and academic
libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

For information about the access to file 43 please see Help News43.

NEW FILES RELEASED

***Dialog NewsRoom - Current 3-4 months (File 990)

***Dialog NewsRoom - 2001 Archive (File 994)

***Dialog NewsRoom - 2000 Archive (File 995)

***AGROProjects (File 235)

***TRADEMARKSCAN-Japan (File 669)

UPDATING RESUMED

***Delphes European Business (File 481)

RELOADED

***Population Demographics (File 581)

***CLAIMS/US PATENTS (Files 340, 341, 942)

***Kompas Western Europe (590)

***D&B - Dun's Market Identifiers (516)

REMOVED

***Washington Post (File 146)

***Books in Print (File 470)

***Court Filings (File 793)

***Microcomputer Software Guide Online (File 278)

***Publishers, Distributors & Wholesalers of the U.S. (File 450)

***State Tax Today (File 791)

***Tax Notes Today (File)
***Worldwide Tax Daily (File 792)

New document supplier
IMED has been changed to INFOTRIE (see HELP OINFOTRI)

>>>Get immediate news with Dialog's First Release
news service. First Release updates major newswire
databases within 15 minutes of transmission over the
wire. First Release provides full Dialog searchability
and full-text features. To search First Release files in
OneSearch simply BEGIN FIRST for coverage from Dialog's
broad spectrum of news wires.

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.
HILIGHT set on as '*'

File 1:ERIC 1966-2002/Mar 02
 (c) format only 2002 The Dialog Corporation

Set	Items	Description
---	-----	-----

Cost is in DialUnits

?b 155, 5, 73

24mar02 14:17:53 User259876 Session D329.1		
\$0.35	0.099	DialUnits File1
\$0.35		Estimated cost File1
\$0.01		TYMNET
\$0.36		Estimated cost this search
\$0.36		Estimated total session cost 0.099 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1966-2002/Mar W2
File 5:Biosis Previews(R) 1969-2002/Mar W3
 (c) 2002 BIOSIS
File 73:EMBASE 1974-2002/Mar W3
 (c) 2002 Elsevier Science B.V.

***File 73: For information about Explode feature please
see Help News73.**

Set	Items	Description
---	-----	-----

?s (liver or hepatic) (w) (progenitor or (stem (w) cell))

1348812	LIVER
373314	HEPATIC
54803	PROGENITOR
276646	STEM
5658142	CELL
77496	STEM(W) CELL

S1	349	(LIVER OR HEPATIC) (W) (PROGENITOR OR (STEM (W) CELL))
----	-----	--

?s (hepatoblast)

S2	56	(HEPATOBLAST)
----	----	---------------

?s s1 or s2

349	S1	
56	S2	
S3	398	S1 OR S2

?s s3 and (hepatic or mesenchymal or hematopoietic or hemopoietic)

398	S3
373314	HEPATIC
36472	MESENCHYMAL

104909 HEMATOPOIETIC
278423 HEMOPOIETIC
S4 257 S3 AND (HEPATIC OR MESENCHYMAL OR HEMATOPOIETIC OR
HEMOPOIETIC)
?s s4 and (isolation or purification)
257 S4
816691 ISOLATION
677865 PURIFICATION
S5 24 S4 AND (ISOLATION OR PURIFICATION)
?rd
...completed examining records
S6 19 RD (unique items)
?t s6/3,k/all

6/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

11702528 21256547 PMID: 11358043 ✓

***Hepatic* stem cells: a review.**

Vessey CJ; de la Hall PM

Department of Anatomical Pathology, University of Cape Town, South Africa.

Pathology (England) May 2001, 33 (2) p130-41, ISSN 0031-3025

Journal Code: OTA

Languages: ENGLISH

Document type: Journal Article; Review; Review, Academic

Record type: Completed

***Hepatic* stem cells: a review.**

The existence of a *liver* *stem* *cell* population has only gained credence recently, following the results of animal experiments. These cells are thought to reside in the terminal bile ductules (canals of...

...L-PK, albumin and alpha-fetoprotein. There is also growing evidence that bone marrow stem cells may contribute to liver regeneration. The possible involvement of *hepatic* stem cells in the development of dysplastic nodules, hepatocellular carcinoma and cholangiocarcinoma has been suggested but remains highly controversial. Oval cell *isolation* and culture techniques, together with stem cell transplantation strategies, may in the future provide novel treatments for individuals with inherited and acquired *hepatic* disorders.

6/3,K/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

11131481 21017687 PMID: 11144968

Clonogenic colony-forming ability of flow cytometrically isolated *hepatic* *progenitor* cells in the murine fetal liver.

Taniguchi H; Kondo R; Suzuki A; Zheng YW; Takada Y; Fukunaga K; Seino K; Yuzawa K; Otsuka M; Fukao K; Nakauchi H

Department of Surgery, Institute of Clonical Medicine, University of Tsukuba, Ibaraki, Japan. rtanigu@igaku.md.tsukuba.ac.jp

Cell transplantation (United States) Sep-Oct 2000, 9 (5) p697-700, ISSN 0963-6897 Journal Code: B02

Languages: ENGLISH

Document type: Evaluation Studies; Journal Article

Record type: Completed

Clonogenic colony-forming ability of flow cytometrically isolated *hepatic* *progenitor* cells in the murine fetal liver.

Stem cells are defined as cells having multilineage differentiation potential and self-renewal capability. *Hepatic* stem cells have aroused considerable interest not only because of their developmental importance but also for their therapeutic potential. However, their presence in the liver has not yet been demonstrated. With the use of a

fluorescence-activated cell sorter (FACS) and monoclonal antibodies, we attempted to ascertain whether *hepatic* stem cells are present in the murine fetal liver. For this purpose, we optimized a cell *isolation* technique for FACS sorting of fetal liver cells. When isolated CD45 TER119 cells (the non-blood cell fraction in the fetal liver) were tested for their clonogenic colony-forming ability, mechanical dissociation (pipetting) was the most suitable cell *isolation* technique for FACS sorting. We confirmed that these colonies contained not only cells expressing hepatocyte markers but also cells expressing cholangiocyte markers. To identify *hepatic* stem cells, studies must focus on CD45TER119- cells in the murine fetal liver.

6/3,K/3 (Item 3 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

09484901 94299642 PMID: 8027180

Expression of *hepatic* transcription factors during liver development and oval cell differentiation.

Nagy P; Bisgaard HC; Thorgeirsson SS
Laboratory of Experimental Carcinogenesis, National Cancer Institute, Bethesda, Maryland 20892-0037.
Journal of cell biology (UNITED STATES) Jul 1994, 126 (1) p223-33,
ISSN 0021-9525 Journal Code: HMV
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

Expression of *hepatic* transcription factors during liver development and oval cell differentiation.

The oval cells are thought to be the progeny of a *liver* *stem* *cell* compartment and strong evidence now exists indicating that these cells can participate in liver regeneration by differentiating into different *hepatic* lineages. To better understand the regulation of this process we have studied the expression of liver-enriched transcriptional factors (HNF1 alpha and HNF1 beta, HNF3...

... DBP) in an experimental model of oval cell proliferation and differentiation and compared the expression of these factors to that observed during late stages of *hepatic* ontogenesis. The steady-state mRNA levels of four (HNF1 alpha, HNF3 alpha, HNF4, and C/EBP beta) "liver-enriched" transcriptional factors gradually decrease during the...

; Blotting, Northern; CCAAT-Enhancer-Binding Proteins; Cell Differentiation; Cell Division; DNA-Binding Proteins--genetics--GE; DNA-Binding Proteins--*isolation* and *purification*--IP; In Situ Hybridization; Liver--anatomy and histology--AH; Liver--embryology--EM; Liver Regeneration; Nuclear Proteins--genetics--GE; Nuclear Proteins--*isolation* and *purification*--IP; Rats; Stem Cells--cytology--CY; Transcription Factors--genetics--GE; Transcription Factors--*isolation* and *purification*--IP; Up-Regulation (Physiology)

6/3,K/4 (Item 4 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

08930622 96295654 PMID: 8679101

Stem cells from bone marrow, umbilical cord blood and peripheral blood for clinical application: current status and future application.

Lu L; Shen RN; Broxmeyer HE
Department of Medicine (Hematology/Oncology), Indiana University School of Medicine, Indianapolis 46202-5121, USA.
Critical reviews in oncology/hematology (IRELAND) Mar 1996, 22 (2) p61-78, ISSN 1040-8428 Journal Code: AGO
Contract/Grant No.: R01 CA HL46549, CA, NCI; R01 HL 49202, HL, NHLBI; R37 CA 36464, CA, NCI
Languages: ENGLISH
Document type: Journal Article; Review; Review, Academic

Record type: Completed

...screening of new immunomodulating agents which improve engraftment and augment hemopoiesis are intense areas of investigation. To this end there has clearly been progress in *purification* and characterization of human stem cells from different tissue sources. Discussed in this review are: (a) stem cell *purification*, characterization and ex vivo expansion; (b) bone marrow stem cell transplantation; (c) cord blood stem cell transplantation; (d) peripheral blood stem cell transplantation; (e) fetal *liver* *stem* *cell* transplantation; (f) in utero stem cell transplantation; and (g) evaluation of the capacity of stem cells to serve as targets for gene therapy.

Descriptors: Blood Cells--cytology--CY; *Bone Marrow--cytology--CY; *Fetal Blood--cytology--CY; **Hematopoietic* Stem Cells--cytology--CY

6/3,K/5 (Item 5 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

08398908 94245825 PMID: 7514611

Modulation of keratin 14 and alpha-fetoprotein expression during *hepatic* oval cell proliferation and liver regeneration.

Bisgaard HC; Nagy P; Ton PT; Hu Z; Thorgeirsson SS

Laboratory of Experimental Carcinogenesis, National Cancer Institute, National Institutes of Health, Bethesda, Maryland 20892.

Journal of cellular physiology (UNITED STATES) Jun 1994, 159 (3) p475-84, ISSN 0021-9541 Journal Code: HNB

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

Modulation of keratin 14 and alpha-fetoprotein expression during *hepatic* oval cell proliferation and liver regeneration.

Keratin 14 (K14) expression has recently been demonstrated in cell lines of non-parenchymal *hepatic* origin (Bisgaard et al., 1993, Mol. Carcinog., 7:60-66; Bisgaard et al., 1991, J. Cell. Physiol., 147:333-343). These cell lines are thought...

... utilized an in vitro model in which spontaneous transformation of rat liver epithelial (RLE) cells appeared to mimic the process of early differentiation along the *hepatic* lineage in vivo. We demonstrated that undifferentiated RLE cells at a late passage expressed K14 and vimentin, whereas transformation and differentiation to *hepatoblast*-like progeny resulted in an abrogation of K14 and vimentin expression and an induction of K18 and AFP. We propose that K14 and AFP are...

...; Cells, Cultured; Gene Expression Regulation--drug effects--DE; Hepatectomy; In Situ Hybridization; Liver--cytology--CY; Liver --drug effects--DE; Poly A--biosynthesis--BI; Poly A--*isolation* and *purification*--IP; RNA--biosynthesis--BI; RNA--*isolation* and *purification*--IP; RNA, Messenger--analysis--AN; Rats; Rats, Inbred F344; Transcription, Genetic--drug effects--DE; Vimentin--biosynthesis--BI

6/3,K/6 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

13512343 BIOSIS NO.: 200200141164

***Hepatic* *progenitor* cells isolated from adult mouse liver.**

AUTHOR: Azuma Hisaya(a); Hirose Tetsuro; Fujii Hideaki; Oe Shoshiro;

Yasuchika Kentaro; Fujikawa Takahisa; Yamaoka Yoshio

AUTHOR ADDRESS: (a) Kyoto University Graduate School of Medicine, Kyoto**
Japan

JOURNAL: Hepatology 34 (4 Pt. 2):p502A October, 2001

MEDIUM: print

CONFERENCE/MEETING: 52nd Annual Meeting and Postgraduate Courses of the

American Association for Study of Liver Diseases Dallas, Texas, USA
November 09-13, 2001
ISSN: 0270-9139
RECORD TYPE: Citation
LANGUAGE: English

***Hepatic* *progenitor* cells isolated from adult mouse liver.**

DESCRIPTORS:

ORGANISMS: PARTS ETC: *hepatic* *progenitor* cells...

METHODS & EQUIPMENT: cell *isolation*--...

...cell *isolation* method

6/3,K/7 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

13512342 BIOSIS NO.: 200200141163

**Green fluorescent protein (GFP)-transgenic mouse as a powerful tool in
purification of *hepatic* *progenitor* cells from adult mouse liver.**

AUTHOR: Fujikawa Takahisa(a); Hirose Tetsuro(a); Fujii Hideaki(a); Oe
Shoshiro(a); Yasuchika Kentaro(a); Azuma Hisaya(a); Yamaoka Yoshio(a)

AUTHOR ADDRESS: (a)Kyoto University, Kyoto**Japan

JOURNAL: Hepatology 34 (4 Pt. 2):p502A October, 2001

MEDIUM: print

CONFERENCE/MEETING: 52nd Annual Meeting and Postgraduate Courses of the
American Association for the Study of Liver Diseases Dallas, Texas, USA
November 09-13, 2001

ISSN: 0270-9139

RECORD TYPE: Citation

LANGUAGE: English

**Green fluorescent protein (GFP)-transgenic mouse as a powerful tool in
purification of *hepatic* *progenitor* cells from adult mouse liver.**

DESCRIPTORS:

ORGANISMS: PARTS ETC: *hepatic* *progenitor* cells...

6/3,K/8 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

13511938 BIOSIS NO.: 200200140759

**Efficient gene transfer system for human fetal *hepatic* *progenitor* cells
utilizing developed new *isolation* and culture system.**

AUTHOR: Yasuchika Kentaro(a); Hirose Tetsuro; Fujikawa Takahisa; Fujii
Hideaki; Oe Shoshiro; Azuma Hisaya; Ikai Iwao; Yamaoka Yoshio

AUTHOR ADDRESS: (a)Kyoto University Graduate School of Medicine, Kyoto**
Japan

JOURNAL: Hepatology 34 (4 Pt. 2):p381A October, 2001

MEDIUM: print

CONFERENCE/MEETING: 52nd Annual Meeting and Postgraduate Courses of the
American Association for the Study of Liver Diseases Dallas, Texas, USA
November 09-13, 2001

ISSN: 0270-9139

RECORD TYPE: Citation

LANGUAGE: English

**Efficient gene transfer system for human fetal *hepatic* *progenitor* cells
utilizing developed new *isolation* and culture system.**

DESCRIPTORS:

ORGANISMS: PARTS ETC: fetal *hepatic* *progenitor* cells...

MISCELLANEOUS TERMS: ...*isolation* system

6/3,K/9 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

13215324 BIOSIS NO.: 200100422473

**Prospective identification and enrichment of self-renewing multipotential
hepatic stem cells by flow cytometric cell sorting.**

AUTHOR: Suzuki Atsushi(a); Zheng Yun-wen(a); Kaneko Shin; Onodera Masafumi;
Fukao Katashi(a); Nakauchi Hiromitsu; Taniguchi Hideki(a)

AUTHOR ADDRESS: (a)Dept. Surgery, Tsukuba Univ., Tsukuba**Japan

JOURNAL: Development Growth & Differentiation 43 (Supplement):pS22 July,
2001

MEDIUM: print

CONFERENCE/MEETING: 14th International Congress of Developmental biology
Kyoto, Japan July 08-12, 2001

ISSN: 0012-1592

RECORD TYPE: Citation

LANGUAGE: English

SUMMARY LANGUAGE: English

**Prospective identification and enrichment of self-renewing multipotential
hepatic stem cells by flow cytometric cell sorting.**

DESCRIPTORS:

...ORGANISMS: PARTS ETC: *hepatic* *stem* *cell*--

...METHODS & EQUIPMENT: *purification* method

6/3,K/10 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

13052624 BIOSIS NO.: 200100259773

**Prospective identification and *purification* of multi-potent *hepatic*
stem cells.**

AUTHOR: Suzuki A(a); Taniguchi H(a); Zheng Y W(a); Fukao K(a); Nakauchi H

AUTHOR ADDRESS: (a)Dept. of surgery, Inst. of Clinical Med., Univ. of
Tsukuba, Tsukuba**Japan

JOURNAL: Zoological Science (Tokyo) 17 (Supplement):p83 December, 2000

MEDIUM: print

CONFERENCE/MEETING: Seventy-First Annual Meeting of the Zoological Society
of Japan Yamagata, Japan September 21-23, 2000

ISSN: 0289-0003

RECORD TYPE: Citation

LANGUAGE: English

SUMMARY LANGUAGE: English

**Prospective identification and *purification* of multi-potent *hepatic*
stem cells.**

DESCRIPTORS:

ORGANISMS: PARTS ETC: *hepatic* *stem* *cell*--

METHODS & EQUIPMENT: cell *purification*--*purification* method

6/3,K/11 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

12827893 BIOSIS NO.: 200100035042

**Purified *hematopoietic* stem cells can differentiate into hepatocytes in
vivo.**

AUTHOR: Lagasse Eric(a); Connors Heather; Al-Dhalimy Muhsen; Reitsma
Michael; Dohse Monika; Osborne Linda; Wang Xin; Finegold Milton; Weissman
Irving L; Grompe Markus

AUTHOR ADDRESS: (a)StemCells, 525 Del Rey Avenue, Suite C, Sunnyvale, CA,
94085: elagasse@stemcell.net**USA

JOURNAL: Nature Medicine 6 (11):p1229-1234 November, 2000

MEDIUM: print
ISSN: 1078-8956
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

Purified *hematopoietic* stem cells can differentiate into hepatocytes in vivo.

ABSTRACT: The characterization of *hepatic* *progenitor* cells is of great scientific and clinical interest. Here we report that intravenous injection of adult bone marrow cells in the FAH-/- mouse, an animal model of tyrosinemia type I, rescued the mouse and restored the biochemical function of its liver. Moreover, within bone marrow, only rigorously purified *hematopoietic* stem cells gave rise to donor-derived *hematopoietic* and *hepatic* regeneration. This result seems to contradict the conventional assumptions of the germ layer origins of tissues such as the liver, and raises the question of whether the cells of the *hematopoietic* stem cell phenotype are pluripotent *hematopoietic* cells that retain the ability to transdifferentiate, or whether they are more primitive multipotent cells.

DESCRIPTORS:

...ORGANISMS: PARTS ETC: *hematopoietic* stem cells...

...*hepatic* *progenitor* cells

METHODS & EQUIPMENT: cellular *purification*---*purification* method

6/3,K/12 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

11745699 BIOSIS NO.: 199800526395

***Isolation* of *liver* *progenitor* cells using the haemopoietic stem cell marker AC133.**

AUTHOR: ~~Plevris J N; Nelson L J; Dollinger M M; Hayes P C~~

AUTHOR ADDRESS: Liver Cell Biol. Lab., Dep. Med., Royal Infirmary, Univ. Edinburgh, Edinburgh**UK

JOURNAL: Hepatology 28 (4 PART 2):p522A Oct., 1998

CONFERENCE/MEETING: Biennial Scientific Meeting of the International Association for the Study of the Liver and the 49th Annual Meeting and Postgraduate Courses of the American Association for the Study of Liver Diseases Chicago, Illinois, USA November 4-10, 1998

SPONSOR: International Association for the Study of the Liver

ISSN: 0270-9139

RECORD TYPE: Citation

LANGUAGE: English

***Isolation* of *liver* *progenitor* cells using the haemopoietic stem cell marker AC133.**

DESCRIPTORS:

ORGANISMS: PARTS ETC: *liver* *progenitor* cells...

...digestive system, *isolation*

CHEMICALS & BIOCHEMICALS: *hemopoietic* stem cell marker AC133

6/3,K/13 (Item 8 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.

09258653 BIOSIS NO.: 199497267023

Characterization and enrichment of fetal rat hepatoblasts by immunoadsorption ("Panning") and fluorescence-activated cell sorting.

AUTHOR: Sigal Samuel H; Brill Shlomo; Reid Lola M(a); Zvibel Isabel; Gupta Sanjeev; Hixson Douglas; Faris Ronald; Holst Patricia A

AUTHOR ADDRESS: (a) 601 Ch... Cancer Cent., 1300 Morris Park Ave., Bronx,
NY 10461**USA
JOURNAL: Hepatology 19 (4):p999-1006 1994
ISSN: 0270-9139
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: of embryonic age day 15, 3.2% \pm 1.3% and 2.5% \pm 0.7% cells expressed albumin and alpha-fetoprotein, respectively. The remainder exhibited a *hemopoietic*, endothelial or stromal cell phenotype. Cells were panned first with an antibody to red blood cells to remove erythroid cells and then with monoclonal antibodies OX-43/OX-44 to remove *hemopoietic* and endothelial cells. This procedure eliminated 84% of fetal *hepatic* cells, with enrichment of the remainder for albumin or alpha-fetoprotein expression (up to sixfold increase). Flow cytometric analysis of unlabeled cells revealed two populations, which differed in granularity and autofluorescence. After panning, fluorescence-activated cell sorting for agranular cells yielded OX-43/44-positive cells that were essentially all *hemopoietic* precursor cells or OX-43/44-negative cells that were mostly *hemopoietic* precursor cells, along with 3.0% \pm 0.7% alpha-fetoprotein-positive cells. In contrast, sorting for granular, OX-43/44-negative cells enriched for predominantly...

...75.1% \pm 4.7%). Multiparametric flow cytometric analysis of the expression of an oval cell antigen, OC.3, which is a bile duct and putative *liver* *stem* *cell* marker, showed that most OC.3-positive cells coexpressed OX-43/OX-44 and morphologically were *hemopoietic* precursor cells. However, approximately 30% of the OX-43/44-negative, granular cells expressed OC.3. Although the physiological significance of OC.3positive hepatoblasts remains...

...fluorescence-activated cell sorting should facilitate further studies. In addition, because panning alone produced significantly enriched populations of fetal hepatoblasts, applications not requiring further cell *purification* could be performed with this simple technique.
MISCELLANEOUS TERMS: ...*PURIFICATION* METHOD

6/3,K/14 (Item 1 from file: 73)
DIALOG(R) File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

11474016 EMBASE No: 2002045548

**Derivation, characterization, and phenotypic variation of *hepatic*
progenitor cell lines isolated from adult rats**

Yin L.; Sun M.; Ilic Z.; Leffert H.L.; Sell S.

Dr. S. Sell, Department of Pathology, Laboratory of Medicine, Albany Medical College, 47 New Scotland Ave., Albany, NY 12208 United States

AUTHOR EMAIL: sells@mail.amc.edu

Hepatology (HEPATOLOGY) (United States) 2002, 35/2 (315-324)

CODEN: HPTLD ISSN: 0270-9139

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 50

**Derivation, characterization, and phenotypic variation of *hepatic*
progenitor cell lines isolated from adult rats**

Liver *progenitor* cells (LPCs) cloned from adult rat livers following allyl alcohol injury express *hematopoietic* stem cell and early *hepatic* lineage markers when cultured on feeder layers; under these conditions, neither mature hepatocyte nor bile duct, Ito, stellate, Kupffer cell, or macrophage markers are detected...

MEDICAL DESCRIPTORS:

*phenotype; *precursor cell; *cell *isolation*; *liver cell; *liver injury

--etiology--et

hematopoietic stem cell; liver cell culture; Ito cell; Kupffer cell; aneuploidy; cell structure; cell population; cell differentiation; cell size; liver carcinogenesis; gene therapy; bioreactor; pathogenesis; antibody...

6/3,K/15 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

11451253 EMBASE No: 2002023800

***Hepatic* progenitors and strategies for liver cell therapies**

Susick R.; Moss N.; Kubota H.; Lecluyse E.; Hamilton G.; Luntz T.; Ludlow J.; Fair J.; Gerber D.; Bergstrand K.; White J.; Bruce A.; Drury O.; Gupta S.; Reid L.M.

L.M. Reid, 116 Glaxo Building, Campus Box 7038, UNC School of Medicine, Chapel Hill, NC 27599 United States

AUTHOR EMAIL: stemcell@med.unc.edu

Annals of the New York Academy of Sciences (ANN. NEW YORK ACAD. SCI.) (United States) 2001, 944/- (398-419)

CODEN: ANYAA ISSN: 0077-8923

DOCUMENT TYPE: Journal ; Conference Paper

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 120

***Hepatic* progenitors and strategies for liver cell therapies**

...cell therapies, including liver cell transplantation and bioartificial livers, are being developed as alternatives to whole liver transplantation for some patients with severe liver dysfunction. *Hepatic* progenitors are proposed as ideal cells for use in these liver cell therapies given their ability to expand extensively, differentiate into all mature liver cells, have minimal immunogenicity, be cryopreservable, and reconstitute liver tissue when transplanted. We summarize our ongoing efforts to develop clinical programs of *hepatic* *progenitor* cell therapies with a focus on *hepatic* *stem* *cell* biology and strategies that have emerged in analyzing that biology.

MEDICAL DESCRIPTORS:

stem cell transplantation; liver dysfunction; cell differentiation; cryopreservation; immunogenicity; antigenicity; *purification*; liver development; liver regeneration; embryo development; human; human cell; conference paper

6/3,K/16 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

10858271 EMBASE No: 2000339640

Identification of differentially expressed genes in epithelial stem/progenitor cells of fetal rat liver

Petkov P.M.; Kim-K.; Sandhu J.; Shafritz D.A.; Dabeva M.D.

M.D. Dabeva, Marion Bessin Liver Research Center, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461 United States

AUTHOR EMAIL: dabeva@aeacom.yu.edu

Genomics (GENOMICS) (United States) 01 SEP 2000, 68/2 (197-209)

CODEN: GNMCE ISSN: 0888-7543

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 59

...organs, fetal liver, liver regeneration models, and gut epithelial progenitor cell lines, the subtracted clones presented in this work were placed into four categories: (1) *hepatoblast*-specific genes; (2) *hematopoietic* cell-specific genes; (3) genes expressed in hepatoblasts,

in *hematopoietic* cells, and at varying levels in other tissues; and (4) genes overexpressed in fetal liver, in models of activation of *liver* *progenitor* cells, and in epithelial progenitor cell lines. *Hepatoblast*-specific clones and those representing genes induced during liver regeneration are under further study to define their specific function(s) in liver cell growth control...

MEDICAL DESCRIPTORS:

*gene *isolation*; *genetic screening; *liver cell; *precursor cell; *nucleotide sequence
gene expression; expressed sequence tag; gene; liver development; liver regeneration; cell growth; cell differentiation; molecular cloning;
hematopoietic cell; nonhuman; rat; animal cell; article; priority journal

6/3,K/17 (Item 4 from file: 73)

DIALOG(R) File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

07582963 EMBASE No: 1999072794

Expansion conditions for early *hepatic* *progenitor* cells from embryonal and neonatal rat livers

Brill S.; Zvibel I.; Reid L.M.

Dr. S. Brill, Gastroenterology Institute, Tel Aviv Sourasky Medical Center, Weizmann 6, Tel Aviv Israel

Digestive Diseases and Sciences (DIG. DIS. SCI.) (United States) 1999

, 44/2 (364-371)

CODEN: DDSCD ISSN: 0163-2116

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 32

Expansion conditions for early *hepatic* *progenitor* cells from embryonal and neonatal rat livers

...by using cell suspensions depleted of red blood cells and by culturing the cells in hormonally defined medium containing dimethyl sulfoxide. Two distinct populations of *hepatic* *progenitor* cells were evident in the cultures, based on morphology, proliferative ability, and liver-specific gene expression. Most colonies consisted of immature *hepatic* progenitors: small, blastlike cells, weakly expressing alpha-fetoprotein, albumin, and gamma-glutamyltranspeptidase, and showing evidence of proliferation as measured by bromodeoxyuridine incorporation. At the perimeter of these colonies of immature cells and forming some colonies by themselves were more mature *hepatic* *progenitor* cells: larger cells, with increased cytoplasmic to nuclear ratios, little proliferation, and strongly expressing albumin, alpha-fetoprotein, and gamma-glutamyltranspeptidase. The latter two proteins were...

...membranes of these cells. Glycogen deposits were present in the mature cells from day 14 embryos after eight days of culture. Thus, DMSO treatment of *hepatic* parenchymal progenitors provides a novel system for studies of liver development.

MEDICAL DESCRIPTORS:

precursor cell; cell culture; cell proliferation; gene expression; cell *isolation*; nonhuman; rat; animal cell; article; priority journal

6/3,K/18 (Item 5 from file: 73)

DIALOG(R) File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

06768691 EMBASE No: 1997050184

Selective bipotential differentiation of mouse embryonic hepatoblasts in vitro

Rogler L.E.

Dr. L.E. Rogler, Marion Bession Liver Center, Department of Medicine,

Albert Einstein College Medicine, 1300 Morris Park Avenue, Bronx, NY
10461 United States

American Journal of Pathology (AM. J. PATHOL.) (United States) 1997,
150/2 (591-602)
CODEN: AJPAA ISSN: 0002-9440
DOCUMENT TYPE: Journal; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 41

A line of *hepatic* endoderm cells, *hepatoblast* cellline 3 (HBC-3), was derived from the liver diverticulum of the mouse on day 9.5 of gestation by culture on a mitomycin C treated STONsup + feeder layer in a *hepatoblast* culture medium consisting of Dulbecco's modified Eagle's medium, nonessential amino acids, fetal calf serum, and beta-mercaptoethanol. This line, HBC-3, stains positively for alpha-fetoprotein, albumin, and cytokeratin 14 (CK-14), protein markers expressed by the embryonic liver diverticulum, indicating that HBC-3 cells retain an undifferentiated *hepatoblast* phenotype. HBC-3 cells acquire hepatocyte-like ultrastructural characteristics, including bile canaliculi, peroxisomes, and glycogen granules, when maintained to culture for 3 weeks without passage...

MEDICAL DESCRIPTORS:

amino acid sequence; animal cell; animal experiment; animal model; article; cell *isolation*; electron microscopy; embryo development; histochemistry; immunofluorescence; immunohistochemistry; liver development; mouse; nonhuman; pregnancy; priority journal

6/3,K/19 (Item 6 from file: 73)

DIALOG(R) File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

06336317 EMBASE No: 1995368113

Phenotype and regulation of *hepatic* *progenitor* cells versus mature liver cells

Brill S.; Sigal S.; Zvibel I.; Holst P.; Fiorino A.; Reid L.M.

Department of Physiology, CGIBD, UNC School of Medicine, Chapel Hill, NC 27514 United States

Advanced Drug Delivery Reviews (ADV. DRUG DELIV. REV.) (Netherlands) 1995, 17/3 (273-277)

CODEN: ADDRE ISSN: 0169-409X

DOCUMENT TYPE: Journal; Conference Paper

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

Phenotype and regulation of *hepatic* *progenitor* cells versus mature liver cells

MEDICAL DESCRIPTORS:

animal cell; cell differentiation; cell *isolation*; cell line; cell maturation; cell transformation; conference paper; extracellular matrix; genetic transcription; human; human cell; nonhuman; phenotype; priority journal; regulatory mechanism
?ds

Set	Items	Description
S1	349	(LIVER OR HEPATIC) (W) (PROGENITOR OR (STEM (W) CELL))
S2	56	(HEPATOBLAST)
S3	398	S1 OR S2
S4	257	S3 AND (HEPATIC OR MESENCHYMAL OR HEMATOPOIETIC OR HEMOPOI-ETIC)
S5	24	S4 AND (ISOLATION OR PURIFICATION)
S6	19	RD (unique items)
?s s3 and (cell (w) transplantation)	398	S3
	5658142	CELL
	1192855	TRANSPLANTATION
	35046	CELL (W) TRANSPLANTATION

S7 36 S3 AND LL (W) TRANSPLANTATION)
?s s7 and (treatment or therapy)
36 S7
3725881 TREATMENT
4319742 THERAPY
S8 19 S7 AND (TREATMENT OR THERAPY)
?rd
...completed examining records
S9 12 RD (unique items)
?t s9/3,k/all

9/3,K/1 (Item 1 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

11808226 21554782 PMID: 11698269

Peripheral blood stem cell versus bone marrow allotransplantation: does the source of hematopoietic stem cells matter?

Korbling M; Anderlini P; Hematology T A
Department of Blood and Marrow Transplantation, University of Texas MD Anderson Cancer Center, Houston.
Blood (United States) Nov 15 2001, 98 (10) p2900-8, ISSN 0006-4971
Journal Code: A8G
Languages: ENGLISH
Document type: Journal Article
Record type: In Process

Hematopoietic stem cells from 4 different sources have been or are being used for the reconstitution of lymphohematopoietic function after myeloablative, near-myeloablative, or nonmyeloablative *treatment*. Bone marrow (BM)-derived stem cells, introduced by E. D. Thomas in 1963, (1) are considered the classical stem cell source. Fetal *liver* stem *cell* *transplantation* has been performed on a limited number of patients with aplastic anemia or acute leukemia, but only transient engraftment has been demonstrated. (2) Peripheral blood...

9/3,K/2 (Item 2 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

10944492 20568706 PMID: 11118315

Hepatocyte growth factor induces differentiation of adult rat bone marrow cells into a hepatocyte lineage in vitro.

Oh SH; Miyazaki M; Kouchi H; Inoue Y; Sakaguchi M; Tsuji T; Shima N; Higashio K; Namba M

Department of Cell Biology, Institute of Molecular and Cellular Biology, Okayama University Medical School, 2-5-1 Shikata-cho, Okayama, 700-8558, Japan.

Biochemical and biophysical research communications (UNITED STATES) Dec 20 2000, 279 (2) p500-4, ISSN 0006-291X Journal Code: 9Y8

Languages: ENGLISH
Document type: Journal Article
Record type: Completed

Bone marrow (BM) cells originally include alpha-fetoprotein (AFP)- and c-Met [a receptor for hepatocyte growth factor (HGF)]-expressing cells. In vitro *treatment* of BM cells with HGF induced albumin-expressing hepatocyte-like cells. Furthermore, those hepatocyte-like cells expressed cytokeratins 8 and 18, which are typically expressed in normal adult hepatocytes. These findings demonstrate that BM cells include AFP-expressing *hepatic* *progenitor* cells that can be differentiated into hepatocytes by HGF in culture, indicating that such cultures are useful resources for *cell* *transplantation* *therapy* for liver diseases. Copyright 2000 Academic Press.

9/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE

10873612 20517631 PMID: 11062533

Purified hematopoietic stem cells can differentiate into hepatocytes in vivo.

Lagasse E; Connors H; Al-Dhalimy M; Reitsma M; Dohse M; Osborne L; Wang X; Finegold M; Weissman IL; Grompe M

StemCells, 525 Del Rey Avenue, Suite C, Sunnyvale, California 94085, USA.
elagasse@stemcell.net

Nature medicine (UNITED STATES) Nov 2000, 6 (11) p1229-34, ISSN 1078-8956 Journal Code: CG5

Comment in Nat Med. 2000 Nov;6(11) 1212-3

Languages: ENGLISH

Document type: Journal Article

Record type: Completed

The characterization of *hepatic* *progenitor* cells is of great scientific and clinical interest. Here we report that intravenous injection of adult bone marrow cells in the FAH(-/-) mouse, an animal...

Descriptors: Cell Differentiation; **Cell* *Transplantation*;
*Hematopoietic Stem Cells--cytology--CY; *Hepatocytes--cytology--CY;
*Hydrolases--deficiency--DF; *Liver--pathology--PA; *Liver Regeneration;
*Tyrosinemias--*therapy*--TH

9/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

09559051 97249599 PMID: 9095485

Liver regeneration: prospects for *therapy* based on new technologies.

Kay MA; Fausto N

Department of Medicine, University of Washington, Seattle 98195-7720, USA. McKay@u.washington.edu

Molecular medicine today (ENGLAND) Mar 1997, 3 (3) p108-15, ISSN 1357-4310 Journal Code: CMK

Languages: ENGLISH

Document type: Journal Article; Review; Review, Tutorial

Record type: Completed

Liver regeneration: prospects for *therapy* based on new technologies.

... The differentiated parenchymal cells, which do not normally divide, can undergo multiple rounds of cellular division. This brings into question the exact role of the *liver* *stem*-*cell*, which has not been fully characterized. The knowledge gained from the dissection of the basic molecular and cellular events that occur during hepatic regeneration will ...

... or genetic deficiencies. This article reviews the basic principles of liver regeneration, experimental manipulations in animal models, and human clinical applications including cellular transplantation, gene *therapy* and artificial livers.

; Artificial Organs; *Cell* *Transplantation*; Cytokines--physiology--PH; Gene Expression Regulation; Gene *Therapy*--methods--MT; Growth Substances--physiology--PH; Hepatectomy--methods--MT; Liver--cytology--CY; Liver Diseases--chemically induced--CI; Liver Diseases--pathology--PA; Liver Diseases--surgery--SU; Liver Diseases--*therapy*--TH; Liver Transplantation--methods--MT; Rats; Stem Cells--cytology--CY; Transcription Factors--physiology--PH

9/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

08930622 96295654 PMID: 8679101

Stem cells from bone marrow, umbilical cord blood and peripheral blood for clinical application: current status and future application.

Lu L; Shen RN; Broxmeyer HE
Department of Medicine (Hematology/Oncology), Indiana University School
of Medicine, Indianapolis 46202-5121, USA.
Critical reviews in oncology/hematology (IRELAND) Mar 1996, 22 (2)
p61-78, ISSN 1040-8428 Journal Code: AGO
Contract/Grant No.: R01 CA HL46549, CA, NCI; R01 HL 49202, HL, NHLBI; R37
CA 36464, CA, NCI
Languages: ENGLISH
Document type: Journal Article; Review; Review, Academic
Record type: Completed

Bone marrow transplantation (BMT) has progressed rapidly during the past
two decades to that of a *treatment* of choice as a therapeutically
effective modality for the *treatment* of selected patients with malignant
disease and non-malignant hematological disorders. However, its use is
limited by availability of human leukocyte antigens (HLA)-matched donor...

...human stem cells from different tissue sources. Discussed in this review
are: (a) stem cell purification, characterization and ex vivo expansion;
(b) bone marrow stem *cell* *transplantation*; (c) cord blood stem *cell*
transplantation; (d) peripheral blood stem *cell* *transplantation*; (e)
fetal *liver* stem *cell* *transplantation*; (f) in utero stem *cell*
transplantation; and (g) evaluation of the capacity of stem cells to
serve as targets for gene *therapy*.

9/3,K/6 (Item 6 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

07859487 93195031 PMID: 8450037

**Chimerism and tolerance to host and donor in severe combined
immunodeficiencies transplanted with fetal liver stem cells.**

Bacchetta R; Vandekerckhove BA; Touraine JL; Bigler M; Martino S;
Gebuhrer L; de Vries JE; Spits H; Roncarolo MG
Human Immunology Department, DNAX Research Institute, Palo Alto,
California 94304.

Journal of clinical investigation (UNITED STATES) Mar 1993, 91 (3)
p1067-78, ISSN 0021-9738 Journal Code: HS7
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

... studied the peripheral T cell repertoire of two patients with severe
combined immunodeficiency who were successfully treated with human
histocompatibility leukocyte antigen (HLA)-mismatched fetal *liver* stem
cell *transplantation*. The patients presented a split chimerism. T cells
were of donor origin, whereas the B cells/monocytes were of the host
phenotype. Interestingly, the natural...

...no donor-reactive CD8+ T cells or host or donor-reactive TCR gamma delta
+ T cells were detected. These data indicate that, after fetal stem *cell*
transplantation, donor-reactive, but not host-reactive cells, are deleted
from the T cell repertoire. Therefore, a peripheral mechanism of
suppression or clonal anergy, rather than...

; Adolescence; Cell Line; Child, Preschool; Chimera--immunology--IM;
Cytotoxicity, Immunologic; HLA Antigens--analysis--AN; Histocompatibility
Testing; IgA--blood--BL; IgG--blood--BL; Immunologic Deficiency Syndromes--
therapy--TH; Immunophenotyping; Liver Transplantation--immunology--IM;
Receptors, Antigen, T-Cell, gamma-delta--immunology--IM; Stem Cells
--immunology--IM; T-Lymphocyte Subsets--immunology--IM

9/3,K/7 (Item 7 from file: 155)
DIALOG(R) File 155:MEDLINE(R)

06928667 92370096 PMID: 1354521

T cell repertoire and tolerance after fetal stem *cell* *transplantation*

Roncarolo MG; Bacchetta R
DNAX Research Institute, Palo Alto, CA 94304.
Bone marrow transplantation (ENGLAND) 1992, 9 Suppl 1 p127-8, ISSN
0268-3369 Journal Code: BON
Languages: ENGLISH
Document type: Journal Article
Record type: Completed

T cell repertoire and tolerance after fetal stem *cell* *transplantation*

... CD4+ host-reactive T cell clones. Our data demonstrate that host-reactive cells are not deleted from the donor T cell repertoire following allogenic fetal *liver* stem *cell* *transplantation*. Therefore, in vivo tolerance between the host and the donor is maintained by a peripheral autoregulatory mechanism in which cytokines may play a role.

Descriptors: Fetal Tissue Transplantation--immunology--IM; *Hematopoietic Stem *Cell* *Transplantation*; *Hematopoietic Stem Cells--transplantation--TR; *Immune Tolerance; *Severe Combined Immunodeficiency--*therapy*--TH; *T-Lymphocyte Subsets

9/3,K/8 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

11401037 EMBASE No: 2001415524

Update on hepatic stem cells

Alison M.R.; Poulson R.; Forbes S.J.
M.R. Alison, Department of Histopathology, Du Cane Road, London W12 0NN
United Kingdom

AUTHOR EMAIL: m.alison@ic.ac.uk
Liver (LIVER) (Denmark) 2001, 21/6 (367-373)
CODEN: LIVED ISSN: 0106-9543
DOCUMENT TYPE: Journal ; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 46

...of hereditary tyrosinaemia. How these three stem cell populations integrate to achieve a homeostatic balance is not understood. This review focuses on three aspects of *liver* *stem* *cell* biology: 1) the *hepatic* *stem* *cell* candidates; 2) models of *cell* *transplantation* into the liver; and 3) the therapeutic potential of hepatic stem cells.

MEDICAL DESCRIPTORS:

*liver disease--*therapy*--th; *stem *cell* *transplantation*
liver cell; stem cell; cell growth; cell loss; cell proliferation; liver resection; virus infection; hepatitis; liver regeneration; cell division; *cell* *transplantation*; cell clone; liver injury; cell activation; cell compartmentalization; cellular distribution; hepatobiliary system; epithelium cell; cell differentiation; bone marrow cell; hematopoietic stem cell; cell renewal; liver function; tyrosinemia--*therapy*--th; cell population; homeostasis; cytology; bone marrow transplantation; human; nonhuman; male; female; mouse; rat; animal experiment; animal model; controlled study; human tissue; human cell; animal...

9/3,K/9 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

11248311 EMBASE No: 2001262354

Liver transplantation of hepatic stem cells: Potential use for treating liver diseases

Feldmann G.
Dr. G. Feldmann, INSERM U. 327, Faculte de Medecine Xavier Bichat, 16 rue

Henri Huchard, 75018 P s France
AUTHOR EMAIL: u327@bichat.inserm.fr
Cell Biology and Toxicology (CELL BIOL. TOXICOL.) (Netherlands) 2001
17/2 (77-85)
CODEN: CBTOE ISSN: 0742-2091
DOCUMENT TYPE: Journal ; Conference Paper
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 73

...fetal progenitor bipotential hepatic stem cells; adult hepatocytes, which can be considered as unipotential committed stem cells; and oval cells, a type of nonparenchymal pluripotential *hepatic* *stem* *cell*. The advantages and disadvantages of each type of cell are discussed and several other possible alternatives, such as the use of hematopoietic stem cells are...

MEDICAL DESCRIPTORS:

*liver transplantation; *stem *cell* *transplantation*; *liver disease--*
therapy--th
liver injury--*therapy*--th; precursor cell; hematopoietic stem cell; fetus
cell; conference paper; priority journal

9/3,K/10 (Item 3 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

11109747 EMBASE No: 2001123011

**Expansion of hepatic and hematopoietic stem cells utilizing mouse
embryonic liver explants**

Monga S.P.S.; Tang Y.; Candotti F.; Rashid A.; Wildner O.; Mishra B.;
Iqbal S.; Mishra L.
Dr. L. Mishra, DVAMC, 50 Irving Street, Washington, DC 2042 United
States
AUTHOR EMAIL: lopamishra@yahoo.com
Cell Transplantation (CELL TRANSPLANT.) (United States) 2001, 10/1
(81-89)
CODEN: CTRAE ISSN: 0963-6897
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 40

Ex vivo embryonic liver explant culture is a novel and attractive approach to obtain abundant hepatic and hematopoietic stem cells. Gene *therapy* of autologous hepatic and hematopoietic stem cells represents an alternative therapeutic approach to liver transplantation for genetic and metabolic disorders. In this study we characterize...

...cultured under specific conditions. Modulation of growth conditions by addition of hepatocyte growth factor, Flt-3 ligand, and stem cell factor leads to enrichment of *hepatic* *progenitor* cells in embryonic liver explants. Under these conditions, we also demonstrate the role of a novel marker PRAJA-1 to identify hepatic stem cells and...

MEDICAL DESCRIPTORS:

*hematopoietic stem *cell* *transplantation*; *liver transplantation
liver cell; gene *therapy*; liver development; cell differentiation;
nonhuman; mouse; controlled study; animal tissue; article; priority journal

9/3,K/11 (Item 4 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

10650164 EMBASE No: 2000115146

Closing in on the elusive *liver* *stem* *cell*?

Senior K.

Molecular Medicine Today (MOL. MED. TODAY) (United Kingdom) 2000, 6/4
(137)

CODEN: MMTOF ISSN: 135 4310
DOCUMENT TYPE: Journal; Note
LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 4

Closing in on the elusive *liver* *stem* *cell*?

MEDICAL DESCRIPTORS:

*liver cell; *stem *cell* *transplantation*
cell maturation; bone marrow cell; liver injury; liver transplantation;
gene *therapy*; cell differentiation; donor; bone marrow transplantation;
nonhuman; mouse; animal experiment; animal tissue; animal cell; note

9/3,K/12 (Item 5 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

06982780 EMBASE No: 1997268254

Immunological tolerance following stem *cell* *transplantation* in human fetuses in utero

Touraine J.-L.; Raudrant D.; Laplace S.; Roncarolo M.G.
Dr. J.-L. Touraine, Transplantation/CLD, Pav P Hopital E. Herriot, 69437
Lyon Cedex 03 France
Transplantation Proceedings (TRANSPLANT. PROC.) (United States) 1997,
29/5 (2477)
CODEN: TRPPA ISSN: 0041-1345
PUBLISHER ITEM IDENTIFIER: S0041134597004557
DOCUMENT TYPE: Journal; Conference Paper
LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 3

Immunological tolerance following stem *cell* *transplantation* in human fetuses in utero

MEDICAL DESCRIPTORS:

*fetus *liver*; *stem *cell* *transplantation*
clinical article; conference paper; fetus; human; human cell; immune
deficiency; immunological tolerance; niemann pick disease; priority journal
; thalassemia major--*therapy*--th; *treatment* outcome
?ds

Set	Items	Description
S1	349	(LIVER OR HEPATIC) (W) (PROGENITOR OR (STEM (W) CELL))
S2	56	(HEPATOBLAST)
S3	398	S1 OR S2
S4	257	S3 AND (HEPATIC OR MESENCHYMAL OR HEMATOPOIETIC OR HEMOPOI- ETIC)
S5	24	S4 AND (ISOLATION OR PURIFICATION)
S6	19	RD (unique items)
S7	36	S3 AND (CELL (W) TRANSPLANTATION)
S8	19	S7 AND (TREATMENT OR THERAPY)
S9	12	RD (unique items)
?s (s3 or s4) and review		
	398	S3
	257	S4
	1216336	REVIEW
S10	24	(S3 OR S4) AND REVIEW
?rd		
...completed examining records		
S11	17	RD (unique items)
?s s11 and ((hepatic or liver) (w) (disease or disorder))		
	17	S11
	373314	HEPATIC
	1348812	LIVER
	4334980	DISEASE
	633835	DISORDER
	77278	(HEPATIC OR LIVER) (W) (DISEASE OR DISORDER)

S12 4 S11 AND EPATIC OR LIVER) (W) (DISEASE DISORDER))
?t s12/3,k/all

12/3,K/1 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

10925315 EMBASE No: 1998085078

Liver regeneration: Prospects for therapy based on new technologies

Kay M.A.; Fausto N.

Dr. M.A. Kay, Division of Medical Genetics, Department of Medicine,
University of Washington, Seattle, WA 98195-7720 United States

AUTHOR EMAIL: mkay@u.washington.edu

Molecular Medicine Today (MOL. MED. TODAY) (United Kingdom) 1997, 3/3
(108-115)

CODEN: MMTOF ISSN: 1357-4310

PUBLISHER ITEM IDENTIFIER: S1357431096100629

DOCUMENT TYPE: Journal; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 49

...The differentiated parenchymal cells, which do not normally divide, can undergo multiple rounds of cellular division. This brings into question the exact role of the *liver* *stem*--*cell*, which has not been fully characterized. The knowledge gained from the dissection of the basic molecular and cellular events that occur during *hepatic* regeneration will be useful for advancing therapeutic interventions for individuals with *liver* *disease* or genetic deficiencies. This article reviews the basic principles of liver regeneration, experimental manipulations in animal models, and human clinical applications including cellular transplantation, gene...

MEDICAL DESCRIPTORS:

*liver regeneration; **liver* *disease*--therapy--th; *genetic disorder
--therapy--th

human; stem cell; molecular biology; gene therapy; cell transplantation;
artificial liver; *review*

12/3,K/2 (Item 2 from file: 73)
DIALOG(R)File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

07508178 EMBASE No: 1998399953

Ductular reaction and its diagnostic significance

Roskams T.; Desmet V.

Dr. T. Roskams, Department of Pathology, University of Leuven,
Minderbroederstraat 12, B-3000 Leuven Belgium

Seminars in Diagnostic Pathology (SEMIN. DIAGN. PATHOL.) (United States
) 1998, 15/4 (259-269)

CODEN: SDPAE ISSN: 0740-2570

DOCUMENT TYPE: Journal; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 79

...such as acute and chronic cholestasis and variable degrees of parenchymal necrosis. Ductular reaction has gained new interest because of its relationship with putative human *liver* *progenitor* cells. The existence of progenitor cells in a quiescent organ such as the liver, although still controversial, is important for the understanding of biological processes...

MEDICAL DESCRIPTORS:

**liver* *disease*--diagnosis--di

histopathology; *hepatic* duct; liver parenchyma; cholestasis; liver
necrosis; human; *review*; priority journal

12/3,K/3 (Item 3 from file: 73)
DIALOG(R) File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

06525555 EMBASE No: 1996190922

***Hepatic* regeneration: The role of regeneration in pathogenesis of chronic liver diseases**

Bisgaard H.C.; Thorgeirsson S.S.
Dept. of Life Sciences and Chemistry, Roskilde University, Marbjergvej
35, DK-4000 Roskilde Denmark
Clinics in Laboratory Medicine (CLIN. LAB. MED.) (United States) 1996
, 16/2 (325-339)
CODEN: CLMED ISSN: 0272-2712
DOCUMENT TYPE: Journal; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

***Hepatic* regeneration: The role of regeneration in pathogenesis of chronic liver diseases**

Hepatic necrosis is a common reaction to liver injury of various etiologies. The response is regeneration. As reviewed earlier, reconstitution of liver mass may proceed via...

...entry of surviving, functionally intact differentiated liver cells into the cell cycle, where they may remain for several rounds of replication, and (2) recruitment of *hepatic* *progenitor* cells, whereby the liver mass is replaced by extensive proliferation and differentiation of more primitive cell types. Although both mechanisms appear to share a number...

MEDICAL DESCRIPTORS:

*chronic *liver* *disease*; *liver regeneration
epithelium cell; extracellular matrix; kupffer cell; liver cirrhosis; liver
parenchyma; mitosis; nonhuman; pathogenesis; priority journal; *review*;
tissue repair

12/3,K/4 (Item 4 from file: 73)
DIALOG(R) File 73:EMBASE
(c) 2002 Elsevier Science B.V. All rts. reserv.

06073879 EMBASE No: 1995104356

Ductular hepatocytes

Sirica A.E.
Department of Pathology, Medical College of Virginia, Virginia
Commonwealth University, Richmond, VA 23298-0297 United States
Histology and Histopathology (HISTOL. HISTOPATHOL.) (Spain) 1995, 10/2
(433-456)
CODEN: HIHIE ISSN: 0213-3911
DOCUMENT TYPE: Journal; Review
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

Ductular hepatocytes are observed in the livers of both experimental animals and man under various conditions of severe toxin-, carcinogen- or viral-induced *hepatic* injury with prominent loss of parenchymal hepatocytes. These unique *hepatic* epithelial cells are characterized by phenotypic traits that are intermediate between those of hepatocytes and intrahepatic biliary epithelium. The origin of ductular hepatocytes is controversial...

...parenchymal hepatocytes into intrahepatic biliary epithelium, (2) a metaplastic conversion of intrahepatic bile duct or ductular epithelium into hepatocytes, or (3) differentiation of a putative *liver* *stem* *cell* along the hepatocyte lineage. Depending on the *liver* *disease* state being investigated, evidence is presented to support all three of these possibilities. Of particular interest is the increasing evidence supporting the existence of a...